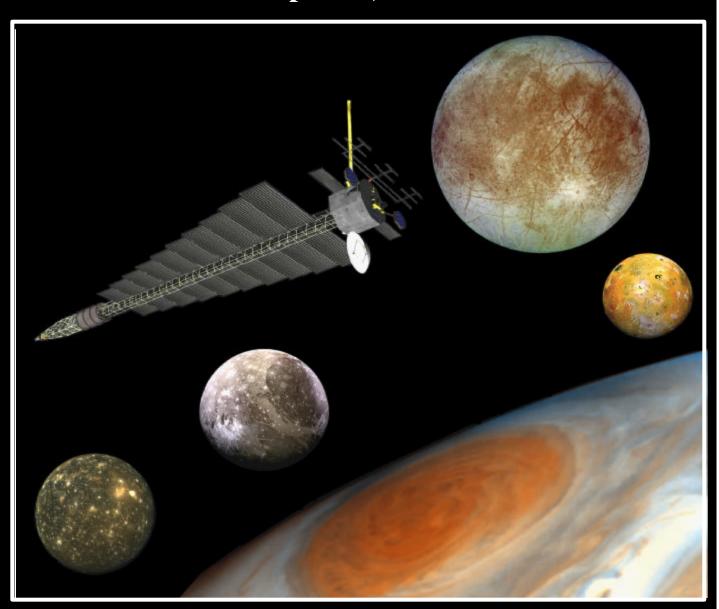
National Aeronautics and Space Administration NASA/MSFC/JPL/UAH 14th Annual Advanced Space Propulsion Workshop (ASPW 2003) April 15-17, 2003

- and **-**

Workshop on Emerging Propulsion Technologies for Robotic Exploration of the Solar System (EPTW)

April 18, 2003



University of Alabama in Huntsville Huntsville, Alabama

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ASPW 2003 University of Alabama in Huntsville (UAH) April 15-17, 2003

ABSTRACTS	
PRESENTATION CHART LIST	
CHARTS	
	<u>Plenary Session</u> : Programmatic overviews
	Advanced Chemical and Earth-to-Orbit (ETO) Propulsion: High-energy density material (HEDM) propellants, hybrids, detonation, etc.; Launch assist catapults (e.g., MagLev), MHD-augmented chemical, virtual inlets, Laser/microwave beamed energy, etc.
	<u>Propulsion Component Improvements</u> : Advanced materials, light-weight magnets, advanced radiators, etc.
	Beamed Energy Propulsion: Solar/laser/microwave thermal propulsion, high-power beamed-energy systems, etc.
	<u>Propellantless Propulsion</u> : Solar/laser/microwave/plasma sails, Aero/gravity assist, Tethers, etc.
	<u>Nuclear Propulsion</u> : Fission thermal/electric/hybrid, nuclear isomers, fusion, antimatter
	Advanced Electric Propulsion: Power Systems, Thrusters (Ion, Hall, MPD, etc.)

AUXILIARY DATA

Attendee List

Supplementary Powerpoint Presentations

Antimatter Driven Sail for Deep Space Missions, Steven D. Howe and Gerald P. Jackson (Hbar Technologies, LLC)

Navigating Through Space: Continuous Thrust Trajectories in 3-D, Ulyana Horodyskyj (Padua Franciscan High School)

The Space Elevator, Bradley C. Edwards (Institute for Scientific Research)